

IN THE CLAIMS:

Cancel claims 1-3 without prejudice and replace them with new claims 4-23 as follows:

Claims 1-3 CANCELLED.

4. (New) A bulk material cooler having a fixed cooling grate which carries bulk material to be cooled and through which a cooling gas flows, beam-shaped push elements arranged above the fixed grate area in several neighboring rows at right angles to a material transport direction which move backwards and forwards, the pushers being movable between a pre-stroke position in the material transport direction and a return-stroke position and transport the material successively from a cooler start to a cooler end, wherein the push elements are formed as hollow bodies through which a cooling medium flows which cools the push elements from the inside.

2. (New) The bulk material cooler according to claim 1, wherein the push elements include cooling medium intake openings in their lower area and cooling medium outlet openings in an area which moves in a bed of the bulk material.

3. (New) The bulk material cooler according to claim 1, wherein the cooling medium is cooling air.

4. (New) The bulk material cooler according to claim 1, wherein the cooling medium is cooling water.

5. (New) A bulk material cooler comprising:
an immobile cooling grate to carry bulk material to be cooled and through which a cooling gas flows,
beam-shaped push elements located above the cooling grate and arranged in several neighboring rows at right angles to a material transport direction,
the push elements being formed as hollow bodies through which a cooling medium flows which cools the push elements internally.

6. (New) A bulk material cooler according to claim 5, wherein the push elements are arranged to move backwards and forwards between a forward-stroke position in the material transport direction and a return-stroke position to transport the material successively from a cooler start to a cooler end.

7. (New) The bulk material cooler according to claim 5, wherein the push elements each have a lower area which includes at least one cooling medium intake opening and an area which moves in the bulk material bed which includes at least one cooling medium outlet opening.

8. (New) The bulk material cooler according to claim 7, wherein the push elements each have a plurality of cooling medium outlet openings.

9. (New) The bulk material cooler according to claim 5, wherein the cooling medium is air.

10. (New) The bulk material cooler according to claim 5, wherein the cooling medium is water.

11. (New) The bulk material cooler according to claim 5, wherein the material is hot cement clinker.

12. (New) The bulk material cooler according to claim 5, wherein the push elements are arranged to move backwards and forwards together as a group.

13. (New) The bulk material cooler according to claim 5, wherein the push elements are arranged to move backwards and forwards individually.

14. (New) A bulk material cooler comprising:
a cooling grate to carry material to be cooled and through which a cooling gas flows,
beam-shaped push elements located above the cooling grate and arranged
substantially transverse to a material transport direction,
the push elements being formed as hollow bodies through which a cooling medium
flows to cool the push elements internally.
15. (New) A bulk material cooler according to claim 14, wherein the push
elements are arranged to move backwards and forwards between a forward-stroke position in
the material transport direction and a return-stroke position to transport the material
successively from a cooler start to a cooler end.
16. (New) The bulk material cooler according to claim 14, wherein the push
elements each have a lower area which includes at least one cooling medium intake opening
and an area which moves in the bulk material bed which includes at least one cooling
medium outlet opening.
17. (New) The bulk material cooler according to claim 16, wherein the push
elements each have a plurality of cooling medium outlet openings.
18. (New) The bulk material cooler according to claim 14, wherein the cooling
medium is air.
19. (New) The bulk material cooler according to claim 14, wherein the cooling
medium is water.
20. (New) The bulk material cooler according to claim 14, wherein the material is
hot cement clinker.
21. (New) The bulk material cooler according to claim 14, wherein the push
elements are arranged to move backwards and forwards together as a group.

22. (New) The bulk material cooler according to claim 14, wherein the push elements are arranged to move backwards and forwards individually.

23. (New) The bulk material cooler according to claim 14, wherein the push elements are arranged in a plurality of adjacent rows.